

Ratio Match-Up

Compare two quantities in the correct order.

GRADE 6 • 6.PFA.1.a

6.PFA.1.a "Represent a relationship between two quantities using ratios."

NAME _____

DATE _____

RATIO ORDER MATTERS

A ratio compares two quantities in a stated order. Put the first named quantity first, then simplify by dividing both terms by the same factor.

WORKED EXAMPLE

A class collects 16 cans and 28 bottles. Write the ratio of cans to bottles in simplest form.

1. Start with cans to bottles: 16:28.
2. Both terms divide by 4.
3. $16/4 = 4$ and $28/4 = 7$.

Answer: 4:7

PRACTICE 6 problems

- 1** A pet shelter has 10 cats and 15 dogs. Write the ratio of cats to dogs in simplest form.

ANSWER _____

- 2** A bracelet has 9 blue beads and 6 green beads. Write the ratio of green beads to all beads in simplest form.

ANSWER _____

- 3** A snack mix has 20 raisins and 8 pretzels. Write the ratio of pretzels to raisins in simplest form.

ANSWER _____

- 4** A library display has 27 mystery books and 9 nonfiction books. Write the ratio of mystery books to nonfiction books in simplest form.

ANSWER _____

- 5** A game club has 22 students playing chess and 33 students playing card games. Write the ratio of chess players to card game players in simplest form.

ANSWER _____

- 6** A recipe uses 6 cups of flour and 30 cups of oats. Write the ratio of flour to oats in simplest form.

ANSWER _____

APPLY IT Show your work

- 1** At a school fair, Kai sells 45 sticker packs and 25 button packs. Write the ratio of sticker packs to button packs in simplest form.

WORK SPACE

ANSWER _____

- 2** A music app playlist has 36 pop songs and 54 hip-hop songs. Write the ratio of pop songs to hip-hop songs in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robotics team orders battery packs and sensors in a ratio of 5:8. They order 65 items altogether. How many battery packs and how many sensors do they order? Write the actual relationship as a ratio.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A pet shelter has 10 cats and 15 dogs. Write the ratio of cats to dogs in simplest form.	2:3
2	A bracelet has 9 blue beads and 6 green beads. Write the ratio of green beads to all beads in simplest form.	2:5
3	A snack mix has 20 raisins and 8 pretzels. Write the ratio of pretzels to raisins in simplest form.	2:5
4	A library display has 27 mystery books and 9 nonfiction books. Write the ratio of mystery books to nonfiction books in simplest form.	3:1
5	A game club has 22 students playing chess and 33 students playing card games. Write the ratio of chess players to card game players in simplest form.	2:3
6	A recipe uses 6 cups of flour and 30 cups of oats. Write the ratio of flour to oats in simplest form.	1:5

PART 2 • APPLY IT

1. **9:5** Start with 45:25. Divide both terms by 5 to get 9:5.
2. **2:3** Start with 36:54. Divide both terms by 18 to get 2:3.

CHALLENGE

25 battery packs and 40 sensors; 25:40 = 5:8

Accept equivalent ratio notation with a colon, words, or a fraction if the order is correct. Require simplest form for items that ask for it.